

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/39549

## A. CLASSIFICATION OF SUBJECT MATTER

rPC(7) : GOIN 33/53  
 US CL ; 435/7.1

According to International Patent Classification (TPCI or to both national classification and IPC)

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/7.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
 LSPGFUB, USPAT, EPO, DERWBNT, MEDLINE, CAPLUS, SCISEARCH

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim NO.
X	US 2003/0108937 A (WILLIAMS et al) 31 October 2001 filing. Paragraphs 0009,001 1,001 6,0052,0057-00 0,0096,0303,0304,0083	1-4 and 6-19
X	US 2002/ 0015943 A1 (BEINZ et al) 27 July 2001 filing date. Paragraphs 0015,0039,0104,0043,0067,00 3,0072,0041,0005, 0072,0002-0005,0055	1-4,7.8.1 1.16-19
Y	HUDZFAK, R. et al Resistance of Morpholino Phosphorodiamidate Oligomers to Enzymatic Degradation. Antisense Nucleic Acid Drug Dev. 1996, Vol. 6, No. 4, pages 267-272, see entire document.	1,3,10
Y	ANGELES et al. Enzyme-linked Immunosorbent Assay for trkA Tyrosine Kinase Activity. Analytical Biochemistry. 1991, Vol. 236, pages 49-55, see figure document.	1-5

α Further documents are listed in the continuation of Box C.

D

See patent family annex.

Special categories of cited documents:	"T"	Later documents published after the international filing date or priority date and not to avoid with the application but cited to understand the principle or how the invention is made.
"A" document defining the subject matter of the application to be of particular relevance	"X"	document of particular relevance; the claimed invention is not considered to involve any new step which the document taken alone
"J3" earlier application or patent published or after the international filing date	"Y"	document of particular relevance; the claimed invention is not considered to involve any new step which the document taken alone
"J4" document which may affect the priority claim(s) or which is cited to establish the publication date of another document or other special reason (as specified)	"&"	document of particular relevance; the claimed invention is not considered to involve any new step which the document taken alone
"O" document from which the application is derived, used, exhibits known or form of the priority date claimed		document number of the same patent family

Date of the actual completion of the international Search

31 November 2005 (2 U. 1.2005)

Date of mailing of the international search report

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Form PC17TSA/210 (second sheet) (July 1998)

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## Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons

- 1  Claim Nos  
because they relate to subject matter not required to be searched by this Authority, namely
  
  
  
- 2  Claim Nos  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically
  
  
  
- 3  Claim Nos  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6 4(a)

## Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows  
Please See Continuation Sheet

- 1  As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims
- 2  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee
- 3  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos
  
  
  
- 4  No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims, it is covered by claims Nos 1-19

## Remark on Protest

The additional search fees were accompanied by the applicant's protest  
 No protest accompanied the payment of additional search fees

INTERNATIONAL SEARCH REPORT

PCT/US04/39549

**BOX π. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING**

The inventions listed as Groups I- III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

- 1-19, drawn to a method of identifying a candidate beta catenin modulating agent.
- 20-22, drawn to a method of modulating beta catenin pathway with an agent that binds PLK, and
- claims 23-25, drawn to a method for diagnosing a disease using a probe for PLK expression.

Methods II and III do not share method steps with Invention I, and PLK polypeptides or nucleic acids are not required as for Invention I. Therefore, unity of invention is lacking.